

81 no.
2299



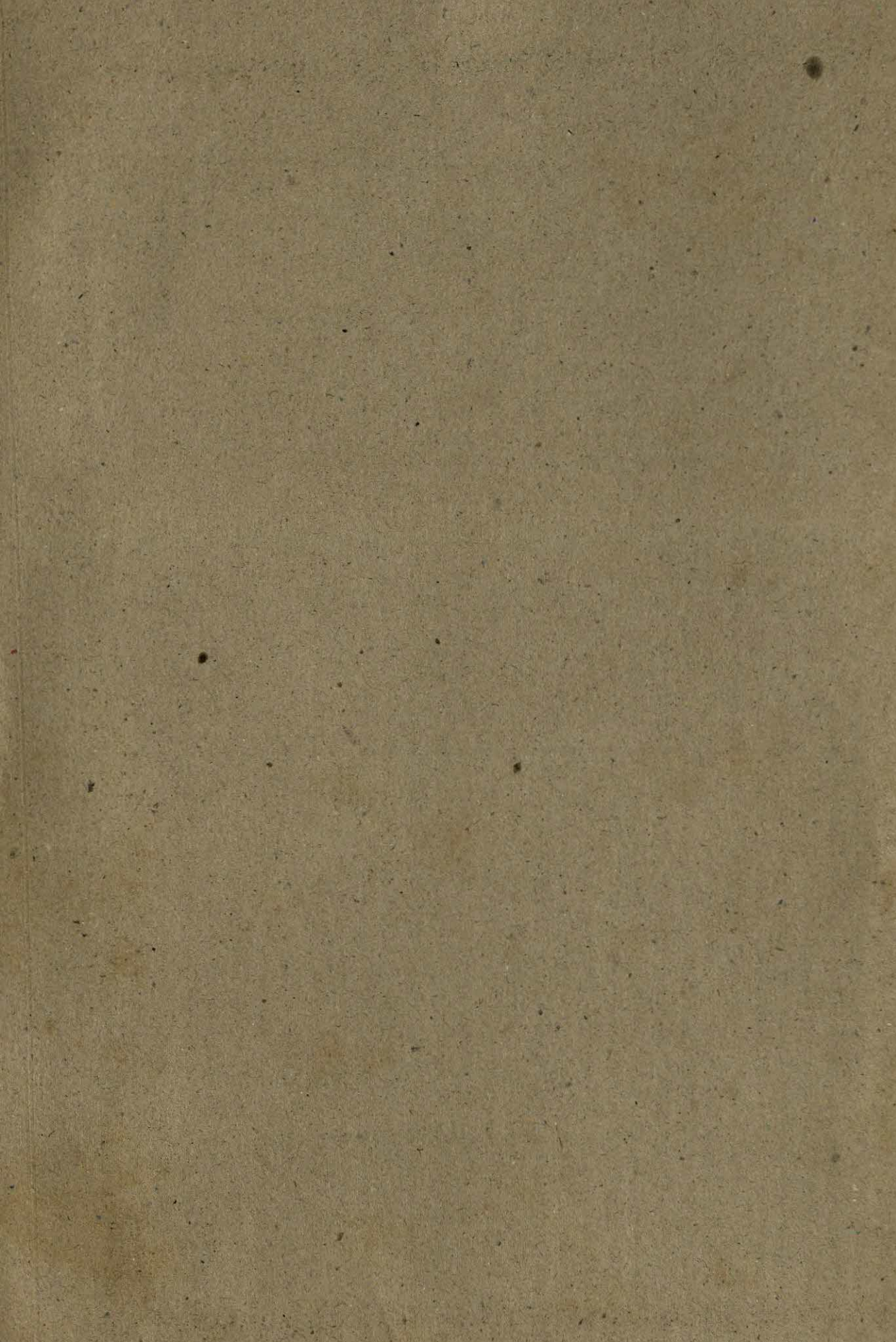
Government of Kerala

Report on

**MEDICAL CERTIFICATION OF
CAUSE OF DEATH
2003**

**Directorate of Economics and Statistics
Thiruvananthapuram, Kerala**

2008



**REPORT ON
MEDICAL CERTIFICATION OF
CAUSE OF DEATH
2003**

**Directorate of Economics and Statistics
Thiruvananthapuram, Kerala
2008**



PREFACE

The scheme of Medical Certification of Cause of Death (MCCD) was introduced in the State as part of All India Programme for improvement of Vital Statistics. The importance of Statistics on cause of death is well recognized and these data are in demand by health planners, administrators and medical professionals.

To obtain valuable data on the cause of death, the scheme was introduced in four Corporations viz. Thiruvananthapuram, Kollam, Kochi and Kozhikode and Alappuzha Municipality. Due to some technical reasons the data pertaining to Thiruvananthapuram Corporation has not been included in the report.

This Report was prepared by the Vital Statistics Unit of Directorate of Economics and Statistics under the effective supervision of the Additional Director Sri D. Rajan. Smt. S. Leelamony, Deputy Director, Smt. K. Shailamma, Assistant Director and Sri M. N. Raju, Research Assistant have provided valuable contribution in the preparation of this report.

M. R. BALAKRISHNAN,
Director.

Thiruvananthapuram.



CONTENTS

<i>Sl. No</i>	<i>Contents</i>	<i>Page No.</i>
(1)	(2)	(3)
I	Introduction of the scheme and analysis of the data	1-8
II	Tables	
1	Deaths based on Major Disease - Alappuzha Municipality, Kollam, Kochi & Kozhikode Corporations —2003.	10
2	Medically certified deaths based on major disease in Alappuzha Municipality —2003	11
3	Sex wise details of medically certified deaths in Alappuzha Municipality— 2003	12
4	Death according to age group in Alappuzha Municipality— 2003	13
5	Sexwise and age-wise distribution of medically certified deaths in Alappuzha Municipality - 2003 (below 1 year)	14
6	Sexwise and age-wise distribution of medically certified deaths in Alappuzha Municipality—2003 (Age group 1 - 14 years)	15
7	Sexwise and age-wise distribution of medically certified deaths in Alappuzha Municipality—2003 (Age group 15 -44)	16
8	Sexwise and age-wise distribution of medically certified deaths in Alappuzha Municipality - 2003 (Age group 45 & above)	17
9	Medically certified deaths based on major disease in Kollam Corporation —2003	18
10	Death according to age group Kollam Corporation —2003	19
11	Sex wise details of medically certified deaths in Kollam Corporation —2003	20
12	Sex-wise and age wise distribution of medically certified deaths in Kollam Corporation —2003 (Below 1 year)	21
13	Sex-wise and age wise distribution of medically certified deaths in Kollam Corporation —2003 (Age group 1 - 14 years)	22
14	Sex-wise and age wise distribution of medically certified deaths in Kollam Corporation —2003 (Age group 15 - 44 years)	23
15	Sex-wise and age wise distribution of medically certified deaths in Kollam Corporation —2003 (Age group 45 and above)	24
16	Medically certified deaths based on major disease in Kochi Corporation —2003	25
17	Death according to age group Kochi Corporation — 2003	26
18	Sex-wise details of medically certified deaths in Kochi Corporation —2003	27

(1)	(2)	(3)
19	Sex-wise and age wise distribution of medically certified deaths in Kochi Corporation —2003 (Below 1 year)	28
20	Sex-wise and age wise distribution of medically certified deaths in Kochi Corporation —2003(Age group 1 - 14 years)	29
21	Sex-wise and age wise distribution of medically certified deaths in Kochi Corporation —2003(Age group 15 - 44 years)	30
22	Sex-wise and age wise distribution of medically certified deaths in Kochi Corporation —2003(Age group 45 and above)	31
23	Medically certified deaths based on major disease in Kozhikode Corporation —2003	32
24	Death according to age group Kozhikode Corporation - 2003	33
25	Sex- wise details of medically certified deaths in Kozhikode Corporation —2003	34
26	Sexwise and age wise distribution of medically certified deaths in Kozhikode Corporation - 2003 (Below 1 year)	35
27	Sex-wise and age wise distribution of medically certified deaths in Kozhikode Corporation —2003 (Age group 1 - 14 years)	36
28	Sex-wise and age wise distribution of medically certified deaths in Kozhikode Corporation —2003 (Age group 15 - 44 and above)	37
29	Sex-wise and age wise distribution of medically certified deaths in Kozhikode Corporation —2003 (Age group 45 and above)	38
III	Appendix I	39
	Appendix II	40-49

REPORT ON MEDICAL CERTIFICATION OF CAUSE OF DEATH 2003

INTRODUCTION

Mortality Statistics from an integral part of the Vital Statistical System. They are one of the basic components of population growth. The data on mortality is indispensable for demographic studies, formulating public health programmes, policy framing for insurance companies, etc. Further the cause specific mortality rates are key indicators of the health trends in the population and are provided on specific basis by the system of Medical Certification of Cause of Death.

The Registration of Birth and Death Act 1969 contains the following sections:

Section 10(2)

In any area the state Government having regard to the facilities available there in this behalf may require that a certificate as to the cause of death shall be obtained by Registrar from such persons and in such form as may be prescribed.

Section 10(3)

Where the State Government has required under sub-section (2) that a certificate as to cause of death shall be obtained in the event of the death of any person who during his last illness was attended by a medical practitioner. The Medical Practitioner shall after the death of that person for the work will issue without charging any fee to the person required under this act to give information concerning the death, a certificate in the prescribed form stating to the best of his knowledge and belief the cause of death and the certificate shall be received and delivered by such person to the Registrar at the time of giving information concerning the death as required by this Act.

The reporting form for the registration of death has also an item for cause of death. However, this information in majority of cases is not authenticated by a medical practitioner. Owing to the difficulty in obtaining cause of death as medically certified, the Registrar General of India formulated the scheme Medical Certification of cause of death, which has been introduced in phases. For the time being it has been introduced in hospitals in urban areas which have been selected by the Chief Registrar of Birth and Death of the State.

In Kerala the scheme has been introduced only in Thiruvananthapuram, Kollam, Kochi, Kozhikode Corporations and Alappuzha Municipality.

Objectives

The main objectives of the scheme are the following

- (1) to obtain reliable information on the underlying causes of death
- (2) to pin point the leading cause of death for males and females
- (3) to identify individual causes of death particularly among infants, mothers and the aged.
- (4) to study the mortality pattern of certain important diseases like tuberculosis, cancer, etc.

- (5) to enable public health and medical authorities to undertake specific investigations and studies into the mortality pattern of disease for the evaluation and planning of health activities.

Methodology

The scheme envisages the collection of accurate data relating to all death in Medical Institutions in the Corporation area having facilities for inpatient treatment. The attending physician is required to furnish the data on cause of death in the prescribed form. The forms used for this purpose is Form 4 (institutional death) and Form 4A (non institutional death). The forms contain the details of the diseases such as name, normal residence, sex, age, date of birth, marital states religion, occupation, immediate cause of death and whether the death associated with pregnancy and child birth. The data are scrutinized and cause of death are identified and coded by the Deputy Health Officers appointed for the purpose. Information of morbidity is not collected under the scheme of medical certification of cause of death.

Cause of Death

A cause of death is the disease abnormality, injury or poisoning that contributed directly or indirectly to death. A death often results from the combined effect of two or more conditions. These conditions may be unrelated, arising independently of each other, or they may be casually related to each other, that is, one condition may lead to a third condition and so on. The disease or injury which initiated the sequences of events will get selected for the purpose of tabulation.

Coding of M. C. C. D.

Data on medically certified cause of death are tabulated according to International classification of diseases(ICD-10)

International classification of diseases (ICD-10)

It is a systematic recording based on, International standard diagnostic classification. Practical instructions and rules are adopted for reporting. Alphanumeric codes are used here.

ICD-10 Characteristics

Three-character code, further subdivided into ten character sub-categories,with the fourth character after a decimal. Coding for practical, epidemiological purpose rather than pure theoretical.

The following are the various chapters in this coding:

Chapter I	Certain infectious and parasitic diseases code	A00-B99
Chapter II	Neoplasm	C00-D48
Chapter III	Diseases of blood & blood forming organs and certain disorders involving the immune mechanism	D50-D89
Chapter IV	Endocrine,Nutritional & metabolic diseases	E00-E90
Chapter V	Mental & behavioral disorder due to psycho active substance	F00-F99

Chapter VI	Disease of nervous system	G00-G99
Chapter VII	Disease of the eye and Adnexa	H00-H59
Chapter VIII	Disease of the ear and mastoid process	H60-H95
Chapter IX	Disease of the circulatory system	I00-I99
Chapter X	Diseases of respiratory system	J00-J99
Chapter XI	Diseases of the digestive system	K00-K93
Chapter XII	Diseases of the skin and subcutaneous tissue	L00-L99
Chapter XIII	Diseases of musculoskeletal system and connective tissue	M00-M99
Chapter XIV	Diseases of the genito urinary system	N00-N99
Chapter XV	Pregnancy, Childbirth and Puerperium	O00-O99
Chapter XVI	Certain conditions originating in the perinatal period	P00-P96
Chapter XVII	Congenital malformation & deformities Chromosomal abnormalities	Q00-Q99
Chapter XVIII	Symptoms, signs & abnormal clinical laboratory findings not elsewhere classified	R00-R99
Chapter XIX	Injury, Poisoning and certain other consequences of external cause.	S00-T98
Chapter XX	External cause of morbidity and mortality	V01-Y98

Uses of Causes of death data

It is an important tool of obtaining authentic and scientific information regarding causes of mortality. MCCD data are of very much importance in the following situations.

- to study and explain level, trends and differentials in age-specific mortality
- to guide priorities for resource allocation and socio-medical research
- to monitor public health programmes
- to provide clues for epidemiological research.

Limitations

Scientific data is not fully obtained due to reasons such as under reporting of vital events, inadequacy of medically certified deaths, larger portions of the death attributed to servility ill defined and unknown causes of death, etc. Since these schemes covers only institutional death, which constitute only a portion of the total deaths, indication on causes of death from this system is not comprehensive.

Analysis of the data

This report contains statistics on death by causes, which occurred in the selected centers Kollam, Kochi and Kozhikkode Corporations and Alappuzha Municipality during the year 2003. In this report medically certified deaths have been tabulated in conformity with the ICD-10. This report provides statistics on cause of death by cross classifying these by age and sex also.

The population of Alappuzhua Municipality was 177160 as per 2001 census with an area of 46.77 sq.km. having a density of population 3788. During the year 2003 the number of Medically Certified Deaths verified and analysed were 2048.nos.

The population of Kollam Corporation was 365880 with an area of 57.28 sq.km. and having density of population 6388/sqkm. During 2003 the number of Medically Certified Deaths identified and analysed were 1834 numbers.

The population of Kochi Corporation was 597566 as per 2001 census with an area of 94.88 sq.km. having a density of population 6298. During the year under report the number of Medically Certified Deaths verified and analysed were 4559 nos.

The population of Kozhikkode Corporation was 437095 as per 2001 census with an area of 84.28 sq.km. having a density of population 5186. During the year under report the number of Medically Certified Deaths verified and analysed were 7442 nos.

Sex-wise Distribution

In Alappuzhua Municipality out of 2048 deaths, 1243 (60.69%) were male and female 805 (39.31%). For the previous year, the total number of deaths reported was 1653 of which 964 (58.32%) were males and 689 (41.68%) were females.

In Kollam Corporation out of 1834 deaths, 1148(62.60%) were male deaths and 686 (37.41%) were female deaths .In the previous year it was reported as 1990 of which 1247 (62.66%) were male deaths and 743(37.34%) were female deaths.

In Kochi corporation the total number deaths reported was 4559 of which 2871(62.97%) were male deaths and 1688 (37.03%) were female deaths. For the previous year out of 4692 deaths verified 2968 (63.26%) were male deaths and 1724 (36.74%) were female deaths.

In Kozhikkode Corporation out of 7442 deaths reported, 4671(62.77%) were males and 2771 (37.23%) were females. It was found that in 2002 the number deaths reported was 6864 of which 4377 (63.77%) were males and 2487 (36.23%) were females.

Major diseases

(1) Disease of the circulatory system code IX (I 00-I 99)

During year 2003, disease of the circulatory system has been reported as first major cause of death in Alappuzhua Municipality and in the three corporations viz. Kozhikkode, Kollam and Kochi. It includes causes like Heart attack, congestive and other heart disease. The percentage of deaths reported under this disease in the above centers were 15.27, 38.64,14.00 and 32.09 respectively.

(2) Diseases of respiratory system Code X (J00-J98)

Diseases of the respiratory system comprises of Influenza and pneumonia, bronchitis, broncholitis, Asthma, etc. This category of cause of death comes in the 2nd place in respect of Alappuzhua Municipality and Kollam Corporation. In Kozhikkode Corporation it comes in the 5th place and in Kochi Corporation it comes in the 3rd place. Percentage of death reported in this category in Alappuzhua Municipality and in the corporations of Kollam, Kochi and Kozhikkode were 22.65, 16.18, 18.71 and 42.47 respectively.

(3) Neoplasm Code II (C 00-D 48)

Neoplasm has been reported as the 3rd major cause of death in respect of Alappuzhua Municipality and Kozhikkode Corporation. In Kollam Corporation it comes in the 4th rank and in the Kochi Corporation it stands in the 2nd rank. This major group comprises of cancer. During the year 2003 the percentage of death in this category in Alappuzhua Municipality and in the Corporations of Kollam, Kochi and Kozhikkode were 9.82, 8.26, 36.90 and 45.02 respectively.

(4) Certain infectious and parasitic diseases Code I(A 00-B 99)

This major group comprises of cholera, Typhoid, Para typhoid, Dysentery, Diarrhea and Gas tro-enteritis, TB of lungs, Leprosy, Tetanus, Neo-naturm and other Tetanus, Whooping Cough, Poliomyelitis and Rabies. This major cause of death came in the 2nd places in Kozhikkode Corporation and 4th place in Kochi Corporations. It stood in the 5th place in respect of Kollam Corporation and 6th place in Alappuzhua Municipality. In the above centers the percentage of deaths reported in this category was 65.72, 22.38, 5.38 and 6.52 respectively.

(5) Injury, Poisoning and certain other consequences of external cause Code XIX (S00- T98)

This major cause of death includes death due to burns and food poisoning, road and railway accidents, suicide, homicide and other violence etc. This category of disease came in the 9th place in Kollam Corporation and 4th place in Alappuzhua Municipality. In Kochi and Kozhikkode Corporations this came in the 6th place. The percentage of death reported in this category in Alappuzhua Municipality and Kollam, Kochi and Kozhikkode Corporations were 15.63, 4.31, 28.46 and 51.60 respectively.

(6) Endocrine, Nutritional and Metabolic diseases Code IV (E 00-E 89)

This category of cause of death comprises of disorders of thyroid gland, Diabetes mellitus, disorders of glucose regulation and pancreatic internal secretion, disorders of other endocrine glands; Malnutrition, etc. This major cause of death disease comes in 7th place in Kozhikkode Corporation and 3rd place in Kollam Corporation. In Kochi Corporation and Alappuzhua Municipality it stood in the 5th place. The percentage of death reported in this category in Kozhikkode, Kollam and Kochi Corporations were 32.40, 26.31 and 30.08 respectively. In Alappuzhua Municipality the percentage of death reported was 11.22.

(7) Diseases of the digestive system Code XI (K00-K92)

The major cause of death group "Diseases of the digestive system" stood in the 6th place in Kollam Corporation. It came in the 8th place in Kochi and Kozhikkode Corporation and in Alappuzhua Municipality. This major cause group is comprised of peptic or gastric ulcer. During the year 2003 the percentage of death reported in this category in Alappuzhua Municipality and Kollam, Kochi and Kozhikkode corporations were 7.56, 11.05, 33.14 and 48.26 respectively .

(8) Certain Conditions originating in the perinatal period – Code XVI (P 00 – P 96)

This major cause of death comprises of Fetus and newborn affected by maternal factors and by complications of pregnancy labour and delivery, Disorders related to length of gestation and fetal growth, Birth Trauma, Haemorrhagic and hematological disorders of fetus and new born etc. This category of cause of death came in the 9th place in respect of Kochi Corporations. In Kollam Corporation and Alappuzhua Municipality it came in 7th place and 4th place in Kozhikkode Corporation. The percentage of deaths reported in this category in Alappuzhua Municipality and Kollam, Kochi and Kozhikkode Corporations were 5.76, 4.00, 16.79 and 73.46 respectively .

(9) Disease of the nervous system VI Code (G 00- G 98)

This major cause group consist of Epilepsy, Parkinson's disease, Alzhuymers disease, Migraine. It came in 10th place in Kochi and Kozhikkode Corporations. Kollam Corporation stood in 11th place and Alappuzhua Municipality in 9th place. During 2003, the percentage of death reported in this category in Alappuzhua Municipality and Kollam, Kochi and Kozhikkode Corporations were 11.77, 3.48, 25.13 and 59.63 respectively .

(10) Diseases of the genito urinary system Code XIV (N 00-N 99)

Diseases of the genito urinary system stood in the 9th position. This group consist of glomerular diseases, diseases of the urinary system and Diseases of Male and female genital organs. This category of cause of death came in the 7th place in respect of Kochi, 8th place in Kollam and 9th place in Kozhikkode Corporations. It stood in the 10th place in Alappuzhua Municipality. The percentage of deaths reported in this category in Alappuzha Municipality and Kollam, Kochi and Kozhikkode Corporations were 6.69, 7.47, 35.93 and 49.92 respectively .

DEATH ACCORDING TO AGE GROUP

Alappuzha Municipality

The percentage of death for the age group below 1 year was 4.98 against 12.34 for the previous year. In the age group 1-14, percentage of death was 1.66. The percentage of death among the age group 15-44 was 9.08 where as that for the age group 45 and above was 84.28.

The major killer diseases in the infants was due to certain conditions originating in the perinatal periods; congenital malformation and deformities chromosome abnormalities followed

by certain infectious and parasitic diseases. Percentage of the former is 70.59 and later is 9.80. In the age group 1-14 and 15 to 44 years the major cause of death was injury, poisoning and certain other consequences of external cause. Disease of circulatory system was reported as the major cause of death in the age group 45 and above.

Kollam Corporation

The percentage of infant death was 3.38. In the age group 1-14 percentage of death was 0.06 which is noted to be the least. The percentage of death among the age group 15-44 was 7.09 where as that of age group 45 and above was 88.93.

The main cause of death among below 1 year age group was certain conditions originating in the perinatal period. About 80.65% death falls under this category. Diseases of circulatory system was the main reason for death in the age group 1-14. The major killer diseases in the age group 15-44 was disease of the circulatory system and injury, poisoning and certain other consequences of external cause followed by diseases of respiratory system. Disease of circulatory system was the major cause of death among the age group 45 and above. About 44.21% of deaths falls under this category.

Kochi Corporation

The percentage of death for the age group below 1 year was 7.63. In the age group 1-14 the percentage of death was 2.04. The percentage of death in the age group of 15-44 was 15.92 and in the age group of 45 and above it was 74.40.

The major killer diseases in the age group below 1 year was certain conditions originating in the perinatal period and 60.34% of deaths were occurred due to this reason. Then comes disease of circulatory system and certain infectious and parasitic diseases. Disease of the circulatory system was the main reason for death in the age group 1-14, 15-44 and 45 and above. The percentage of death due to this disease was 34.41, 36.09 and 40.89 respectively. The second major cause of death in the age group 15-44 and 45 and above was neoplasms.

Kozhikkode Corporation

For the age group below 1 year, the percentage of death was 17.36. In the age group 1 - 14 the percentage of death was 4.00. The percentage of death in the age group 15-44 and 45 and above was 13.59 and 65.02 respectively.

The major cause of death among below 1 year age group was certain conditions originating in the perinatal period. 71.13% of deaths falls under this category. In the age group 1- 14, certain infectious and parasitic diseases was the main reason for death then comes disease of circulatory system and disease of respiratory systems. From the data it can be clear that disease of circulatory system was the main reason for death in the age group 15-44 followed by injury, poisoning and certain other consequences of external cause. Majority of the deaths in the age group 45 and above occurred due to diseases of circulatory system. Certain infectious and parasitic diseases was another reason for death in the age group 45 and above.

CONCLUSION

The disease of the circulatory system, the major group of cause of death emerged as the first cause group in all the centers viz., Alappuzha Municipality and Kozhikkode, Kollam and Kochi Corporations. During the year under report the percentage of death due to this disease was 15.27, 14.00, 32.09 and 38.64 respectively for Alappuzha Municipality and in the corporations of Kollam, Kochi and Kozhikkode. The second major cause death reported was neoplasm. Deaths due to pregnancy, child birth and puerperium was reported only from Kochi and Kozhikkode Corporations. Only 8 deaths are reported from these centers. No deaths are reported due to Mental & behavioral disorder due to psycho active substance, Disease of the eye & Adnexa, Disease of the ear & mastoid, Diseases of the skin & subcutaneous tissue, Diseases of musculoskeletal system & connective tissue, Congenital malformation & deformities Chromosomal abnormalities and Symptoms, signs & abnormal clinical laboratory findings not elsewhere classified etc., from any of the centers. Considering the age group it can be seen that highest number of death occurred in the age group 45 and above and least occurred in the age group 1-14. During the year under report more number of deaths reported from Kozhikkode Corporation and less number from Kollam Corporation.

At present the scheme is implemented only in the selected five centers of the State. In order to obtain a clear picture about the causes of deaths, the coverage of scheme will be extended to all urban and rural areas.

Leading Cause of Deaths in Kollam, Kochi and Kozhikkode Corporations and Alappuzha Municipality – 2003

Sl. No.	Cause of Death.	No. of Deaths	Percentage
1	Disease of the circulatory system	5370	33.81
2	Neoplasms	2057	12.95
3	Diseases of respiratory system	1978	12.45
4	Certain infectious and parasitic diseases	1412	8.89
5	Certain conditions originating in the perinatal period	1251	7.88
6	Endocrine, Nutritional & metabolic diseases	1034	6.51
7	Injury, Poisoning & certain other consequences of external cause.	998	6.28
8	Diseases of the digestive system	688	4.33
9	Diseases of the genito urinary system	643	4.05
10	Disease of nervous system	374	2.35
11	Diseases of blood & blood forming organs and certain disorders involving the immune mechanism	70	0.44
12	Pregnancy, Childbirth & Puerperium	8	0.05
Total		15883	100.00

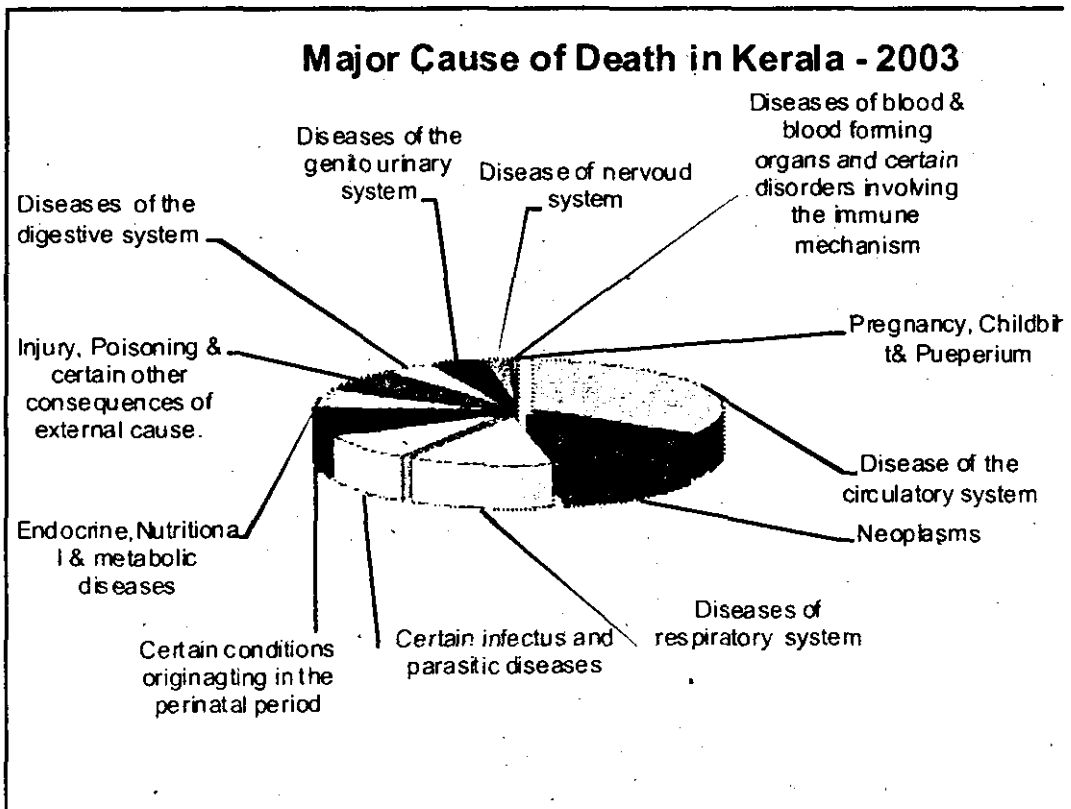


TABLE I
Deaths based on Major Disease - Alappuzha Municipality, Kollam, Kochi & Kozhikkode Corporations—2003

Sl. No	Code	Headings	Total		Alapuzha		Kollam		Kochi		Kozhikkode	
			No.	%	No.	%	No.	%	No.	%	No.	%
1	IX(I00-I99)	Disease of the circulatory system	5370	33.81	820	40.04	752	41	1723	37.79	2075	27.88
2	II(C00-D48)	Neoplasms	2057	12.95	202	9.86	170	9.27	759	16.65	926	12.44
3	X(J00-J98)	Diseases of respiratory system	1978	12.45	448	21.88	320	17.45	370	8.12	840	11.29
4	I(A00-B99)	Certain infectious and parasitic diseases	1412	8.89	92	4.49	76	4.14	316	6.93	928	12.47
5	XVI (P00-P96)	Certain conditions originating in the perinatal period	1251	7.88	72	3.52	50	2.73	210	4.61	919	12.35
6	IV(E00-E89)	Endocrine, Nutritional & metabolic diseases	1034	6.51	116	5.66	272	14.83	311	6.82	335	4.5
7	XIX(S00-T98)	Injury, Poisoning & certain other consequences of external cause.	998	6.28	156	7.62	43	2.34	284	6.23	515	6.92
8	XI(K00-K92)	Diseases of the digestive system	688	4.33	52	2.54	76	4.14	228	5	332	4.46
9	XIV(N00-N99)	Diseases of the genito urinary system	643	4.05	43	2.1	48	2.62	231	5.07	321	4.31
10	VI(G00-G98)	Disease of nervous system	374	2.35	44	2.15	13	0.71	94	2.06	223	3
11	III(D50-D89)	Diseases of blood & blood forming organs and certain disorders involving the immune mechanism	70	0.44	3	0.15	14	0.76	31	0.68	22	0.3
12	XV(O 00-O 99)	Pregnancy, Childbirth & Puerperium	8	0.05					2	0.04	6	0.08
13	V(F00-F99)	Mental & behavioral disorder due to psycho active substance										
14	VIII(H00-H59)	Disease of the eye & Adnexa										
15	VIII(H60-H95)	Disease of the ear & mastoid										
16	XIII(L00-L98)	Diseases of the skin & subcutaneous tissue										
17	XIII(M00-M99)	Diseases of musculoskeletal system & connective tissue										
18	XVII(Q00-Q99)	Congenital malformation & deformities										
19	XVIII(R00-R99)	Chromosomal abnormalities										
		Symptoms, signs & abnormal clinical laboratory findings not elsewhere classified										
		Total	15883	100	2048	100	1834	100	4559	100	7442	100.00

TABLE 2
Medically Certified Deaths based on major disease in Alappuzha Municipality — 2003

Sl. No.	Code	Headings	Total	%
1	IX(I00-I99)	Disease of the circulatory system	820	40.04
2	X(J00-J98)	Diseases of respiratory system	448	21.88
3	II(C00-D48)	Neoplasms	202	9.86
4	XIX(S00-T98)	Injury, Poisoning & certain other consequences of external cause.	156	7.62
5	IV(E00-E89)	Endocrine, Nutritional & metabolic diseases	116	5.66
6	I(A00-B99)	Certain infectious and parasitic diseases	92	4.49
7	XVI (P00-P96)	Certain conditions originating in the perinatal period	72	3.52
8	XI(K00-K92)	Diseases of the digestive system	52	2.54
9	VI(G00-G98)	Disease of nervous system	44	2.15
10	XIV(N00-N99)	Diseases of the genito urinary system	43	2.10
11	III(D50-D89)	Diseases of blood & blood forming organs and certain disorders involving the immune mechanism	3	0.15
12	V(F00-F99)	Mental & behavioral disorder due to psycho active substance		
13	VII(H00-H59)	Disease of the eye & Adnexa		
14	VIII(H60-H95)	Disease of the ear & mastoid		
15	XII(L00-L98)	Diseases of the skin & subcutaneous tissue		
16	XIII(M00-M99)	Diseases of musculoskeletal system & connective tissue		
17	XV(O 00-O 99)	Pregnancy, Childbirth & Puerperium		
18	XVII(Q00-Q99)	Congenital malformation & deformities Chromosomal abnormalities		
19	XVIII(R00-R99)	Symptoms, signs & abnormal clinical laboratory findings not elsewhere classified		
		Total	2048	100.00

TABLE 3

Sexwise details of Medically Certified Deaths in Alappuzha Municipality—2003

Sl. No.	Code	Headings	Male	%	Female	%	Total	%
1	II(A 00-B 99)	Certain infectious and parasitic diseases	57	4.59	35	4.35	92	4.49
2	II(C 00-D 48)	Neoplasms	126	10.14	76	9.44	202	9.86
3	III(D 50-D 89)	Diseases of blood & blood forming organs and certain disorders involving the immune mechanism			3	0.37	3	0.15
4	IV(E 00-E 89)	Endocrine, Nutritional & metabolic diseases	67	5.39	49	6.09	116	5.66
5	V(F 00-F 99)	Mental & behavioral disorder due to psycho active substance						
6	VI(G 00-G 98)	Disease of nervous system	23	1.85	21	2.61	44	2.15
7	VII(H 00-H 59)	Disease of the eye & Adnexa						
8	VIII(H 60-H 95)	Disease of the ear & mastoid						
9	IX(I 00-I 99)	Disease of the circulatory system	534	42.96	286	35.53	820	40.04
10	X(J 00-J 98)	Diseases of respiratory system	246	19.79	202	25.09	448	21.88
11	XI(K 00-K 92)	Diseases of the digestive system	31	2.49	21	2.61	52	2.54
12	XII(L 00-L 98)	Diseases of the skin & subcutaneous tissue						
13	XIII(M00-M 99)	Diseases of musculoskeletal system & connective tissue						
14	XIV(N 00-N 99)	Diseases of the genito urinary system	29	2.33	14	1.74	43	2.10
15	XV(O 00-O 99)	Pregnancy, Childbirth & Puerperium						
16	XVI (P 00-P 96)	Certain conditions originating in the perinatal period	50	4.02	22	2.73	72	3.52
17	XVII(Q 00-Q 99)	Congenital malformation & deformities Chromosomal abnormalities						
18	XVIII(R 00-R 99)	Symptoms, signs & abnormal clinical laboratory findings not elsewhere classified						
19	XIX(S 00-T 98)	Injury, Poisoning & certain other consequences of external cause.	80	6.44	76	9.44	156	7.62
		Total	1243	100.00	805	100.00	2048	100.00

TABLE 4

**Death According to Age Group
Alappuzha Municipality—2003**

<i>Sl. No</i>	<i>Age Group</i>	<i>No.</i>	<i>%</i>
1	Below 1 Year	102	4.98
2	1-14	34	1.66
3	15-44	186	9.08
4	45 and Above	1726	84.28
5	Not stated		
	Total	2048	100.00

TABLE 5

Sex-wise and Age-wise distribution of Medically Certified Deaths in Alappuzha Municipality 2003 - Below 1 Year

Sl No	Code	Headings	Male	%	Female	%	Total	%
1	I(A 00 - B 99)	Certain infectious & parasitic diseases	4	6.06	6	16.67	10	9.80
2	II(C 00 - D 48)	Neoplasms						
3	III(D 50 - D 89)	Diseases of blood & blood forming organs and certain disorders involving the immune mechanism						
4	IV(E 00 - E 89)	Endocrine, Nutritional & metabolic diseases			1	2.78	1	0.98
5	V(F 00 - F 99)	Mental & behavioral disorder due to psycho active substance						
6	VI(G 00 - G 98)	Diseases of the nervous system	3	4.55	3	8.33	6	5.88
7	VII(H 00 - H 59)	Disease of the eye & Adnexa						
8	VIII(H 60 - H 95)	Disease of the ear & mastoid						
9	IX(I 00 - I 99)	Disease of the circulatory system	5	7.58	2	5.56	7	6.86
10	X(J 00 - J 98)	Diseases of respiratory system	3	4.55	2	5.56	5	4.90
11	XI(K 00 - K 92)	Diseases of the digestive system						
12	XII(L 00 - L 98)	Diseases of the skin & subcutaneous tissue						
13	XIII(M 00 - M 99)	Diseases of musculoskeletal system & connective tissue						
14	XIV(N 00 - N 99)	Diseases of the genito urinary system	1	1.52	0	0.00	1	0.98
15	XV(O 00 - O 99)	Pregnancy, Childbirth & Puerperium						
16	XVI(P 00 - P 96)	Certain conditions originating in the perinatal period	50	75.76	22	61.11	72	70.59
17	XVII(Q 00 - Q 99)	Congenital malformation & deformities						
18	XVIII(R 00 - R 99)	Symptoms, signs & abnormal clinical laboratory findings not elsewhere classified						
19	XIX(S 00 - T 98)	Injury, Poisoning & certain other consequences of external cause						
		Total	66	100.00	36	100.00	102	100.00

TABLE 6

Sex-wise and Age-wise distribution of Medically Certified Deaths in Alappuzha Municipality 2003— 1 to 14 years

Sl. No.	Code	Headings	Male	%	Female	%	Total	%
1	I(A00 - B99)	Certain infectious & parasitic diseases	1	5.00	0	0.00	1	2.94
2	II(C00 - D48)	Neoplasms	2	10.00	2	14.29	4	11.76
3	III(D50 - D89)	Diseases of blood & blood forming organs and certain disorders involving the immune mechanism.						
4	IV(E00 - E89)	Endocrine, Nutritional & metabolic diseases						
5	V(F00 - F99)	Mental & behavioral disorder due to psycho active substance						
6	VI(G00 - G98)	Diseases of the nervous system	2	10.00	1	7.14	3	8.82
7	VII(H00 - H59)	Disease of the eye & Adnexa						
8	VIII(H60 - H95)	Disease of the ear & mastoid						
9	IX(I 00 - I 99)	Disease of the circulatory system	5	25.00	4	28.57	9	26.47
10	X(J 00 - J 98)	Diseases of respiratory system	3	15.00	2	14.29	5	14.71
11	XI(K00 - K92)	Diseases of the digestive system	2	10.00	0	0.00	2	5.88
12	XII(L00 - L98)	Diseases of the skin & subcutaneous tissue						
13	XIII(M00 - M99)	Diseases of musculoskeletal system & connective tissue						
14	XIV(N00 - N99)	Diseases of the genito urinary system						
15	XV(O 00 - O 99)	Pregnancy, Childbirth & Puerperium						
16	XVI(P00 - P96)	Certain conditions originating in the perinatal period						
17	XVII(Q00 - Q99)	Congenital malformation & deformities Chromosomal abnormalities						
18	XVIII(R00 - R99)	Symptoms, signs & abnormal clinical laboratory findings not elsewhere classified						
19	XIX(S00 - T98)	Injury, Poisoning & certain other consequences of external cause	5	25.00	5	35.71	10	29.41
		Total	20	100.00	14	100.00	34	100.00

TABLE 7

Sex-wise and Age-wise distribution of Medically Certified Deaths in Alappuzha Municipality 2003 - 15 to 44 years

Sl. No.	Code	Headings	Male	%	Female	%	Total	%
1	I(A00 - B99)	Certain infectious & parasitic diseases	8	8.60	7	7.53	15	8.06
2	II(C00 - D48)	Neoplasms	6	6.45	8	8.60	14	7.53
3	III(D50 - D89)	Diseases of blood & blood forming organs and certain disorders involving the immune mechanism						
4	IV(E00 - E89)	Endocrine, Nutritional & metabolic diseases	3	3.23	0	0.00	3	1.61
5	V(F00 - F99)	Mental & behavioral disorder due to psycho active substance						
6	VI(G00 - G98)	Diseases of the nervous system	3	3.23	4	4.30	7	3.76
7	VII(H00 - H59)	Disease of the eye & Adnexa						
8	VIII(H60 - H95)	Disease of the ear & mastoid						
9	IX(I 00 - I 99)	Disease of the circulatory system	14	15.05	18	19.35	32	17.20
10	X(J 00 - J 98)	Diseases of respiratory system	14	15.05	3	3.23	17	9.14
11	XI(K00 - K92)	Diseases of the digestive system	3	3.23	2	2.15	5	2.69
12	XII(L00 - L98)	Diseases of the skin & subcutaneous tissue						
13	XIII(M00 - M99)	Diseases of musculoskeletal system & connective tissue						
14	XIV(N00 - N99)	Diseases of the genito urinary system	3	3.23	3	3.23	6	3.23
15	XV(O 00 - O 99)	Pregnancy, Childbirth & Puerperium						
16	XVI(P00 - P96)	Certain conditions originating in the perinatal period						
17	XVII(Q00 - Q99)	Congenital malformation & deformities Chromosomal abnormalities						
18	XVIII(R00 - R99)	Symptoms, signs & abnormal clinical laboratory findings not elsewhere classified						
19	XIX(S00 - T98)	Injury, Poisoning & certain other consequences of external cause	39	41.94	48	51.61	87	46.77
		Total	93	100.00	93	100.00	186	100.00

TABLE 8

Sex-wise and Age-wise distribution of Medically Certified Deaths in Alappuzha Municipality 2003—45 and Above

Sl. No.	Code	Headings	Male	%	Female	%	Total	%
1	I(A00 - B99)	Certain infectious & parasitic diseases	44	4.14	22	3.32	66	3.82
2	II(C00 - D48)	Neoplasms	118	11.09	66	9.97	184	10.66
3	III(D50 - D89)	Diseases of blood & blood forming organs and certain disorders involving the immune mechanism	0	0.00	3	0.45	3	0.17
4	IV(E00 - E89)	Endocrine, Nutritional & metabolic diseases	64	6.02	48	7.25	112	6.49
5	V(F00 - F99)	Mental & behavioral disorder due to psycho active substance						
6	VI(G00 - G98)	Diseases of the nervous system	15	1.41	13	1.96	28	1.62
7	VII(H00 - H59)	Disease of the eye & Adnexa						
8	VIII(H60 - H95)	Disease of the ear & mastoid						
9	IX(I 00 - I 99)	Disease of the circulatory system	510	47.93	262	39.58	772	44.73
10	X(J 00 - J 98)	Diseases of respiratory system	226	21.24	195	29.46	421	24.39
11	XI(K00 - K92)	Diseases of the digestive system	26	2.44	19	2.87	45	2.61
12	XII(L00 - L98)	Diseases of the skin & subcutaneous tissue						
13	XIII(M00 - M99)	Diseases of musculoskeletal system & connective tissue						
14	XIV(N00 - N99)	Diseases of the genito urinary system	25	2.35	11	1.66	36	2.09
15	XV(O 00 - O 99)	Pregnancy, Childbirth & Puerperium						
16	XVI(P00 - P96)	Certain conditions originating in the perinatal period						
17	XVII(Q00 - Q99)	Congenital malformation & deformities Chromosomal abnormalities						
18	XVIII(R00 - R99)	Symptoms, signs & abnormal clinical laboratory findings not elsewhere classified						
19	XIX(S00 - T98)	Injury, Poisoning & certain other consequences of external cause	36	3.38	23	3.47	59	3.42
		Total	1148	100.00	662	100.00	1726	100.00

TABLE 9
Medically Certified Deaths based on major disease in Kollam Corporation—2003

Sl.No.	Code	Headings	Total	%
1	IX(I00-I99)	Disease of the circulatory system	752	41.00
2	X(J00-J98)	Diseases of respiratory system	320	17.45
3	IV(E00-E89)	Endocrine, Nutritional & metabolic diseases	272	14.83
4	II(C00-D48)	Neoplasms	170	9.27
5	I(A00-B99)	Certain infectus and parasitic diseases	76	4.14
6	XI(K00-K92)	Diseases of the digestive system	76	4.14
7	XVI (P00-P96)	Certain conditions originagting in the perinatal period	50	2.73
8	XIV(N00-N99)	Diseases of the genito urinary system	48	2.62
9	XIX(S00-T98)	Injury, Poisoning & certain other consequences of external cause.	43	2.34
10	III(D50-D89)	Diseases of blood & blood forming organs and certain disorders involving the immune mechanism	14	0.76
11	VI(G00-G98)	Disease of nervous system	13	0.71
12	V(F00-F99)	Mental & behavioral disorder due to psycho active substance		
13	VII(H00-H59)	Disease of the eye & Adnexa		
14	VIII(H60-H95)	Disease of the ear & mastoid		
15	XII(L00-L98)	Diseases of the skin & subcutaneous tissue		
16	XIII(M00-M99)	Diseases of musculoskeletal system & connective tissue		
17	XV(O 00-O 99)	Pregnancy, Childbirth & Puerperium		
18	XVII(Q00-Q99)	Congenital malformation & deformities Chromosomal abnormalities.		
19	XVIII(R00-R99)	Symptoms, signs & abnormal clinical laboratory findings not elsewhere classified		
		Total	1834	100

TABLE 10

Death According to Age Group

Kollam Corporation 2003

Sl. No	Age Group	No.	%
1	Below 1 Year	62	3.38
2	1-14	11	0.60
3	15-44	130	7.09
4	45 and Above	1631	88.93
5	Not stated		
	Total	1834	100

TABLE 11

Sex-wise details of Medically Certified Deaths in Kollam Corporation—2003

Sl. No.	Code	Headings	Male	%	Female	%	Total	%
1	I(A00 - B99)	Certain infectious & parasitic diseases	46	4.01	30	4.37	76	4.14
2	II(C00 - D48)	Neoplasms	106	9.23	64	9.33	170	9.27
3	III(D50 - D89)	Diseases of blood & blood forming organs and certain disorders involving the immune mechanism	4	0.35	10	1.46	14	0.76
4	IV(E00 - E89)	Endocrine, Nutritional & metabolic diseases	164	14.29	108	15.74	272	14.83
5	V(F00 - F99)	Mental & behavioral disorder due to psycho active substance						
6	VI(G00 - G98)	Diseases of the nervous system	5	0.44	8	1.17	13	0.71
7	VII(H00 - H59)	Disease of the eye & Adnexa						
8	VIII(H60 - H95)	Disease of the ear & mastoid						
9	IX(I00 - I99)	Disease of the circulatory system	470	40.94	282	41.11	752	41.00
10	X(J00 - J98)	Diseases of respiratory system	216	18.82	104	15.16	320	17.45
11	XI(K00 - K92)	Diseases of the digestive system	57	4.97	19	2.77	76	4.14
12	XII(L00 - L98)	Diseases of the skin & subcutaneous tissue						
13	XIII(M00 - M99)	Diseases of musculoskeletal system & connective tissue						
14	XIV(N00 - N99)	Diseases of the genito urinary system	24	2.09	24	3.50	48	2.62
15	XV(O00 - O99)	Pregnancy, Childbirth & Puerperium						
16	XVI(P00 - P96)	Certain conditions originating in the perinatal period	27	2.35	23	3.35	50	2.73
17	XVII(Q00 - Q99)	Congenital malformation & deformities Chromosomal abnormalities						
18	XVIII(R00 - R99)	Symptoms, signs & abnormal clinical laboratory findings not elsewhere classified						
19	XIX(S00 - T98)	Injury, Poisoning & certain other consequences of external cause	29	2.53	14	2.04	43	2.34
		Total	1148	100	686	100	1834	100

TABLE 12

Sex-wise and Age-wise distribution of Medically Certified Deaths in Kollam Corporation 2003 - Below 1 Year

Sl. No.	Code	Headings	Male	%	Female	%	Total	%
1	I(A00 - B99)	Certain infectious & parasitic diseases			2	6.45	2	3.23
2	II(C00 - D48)	Neoplasms						
3	III(D50 - D89)	Diseases of blood & blood forming organs and certain disorders involving the immune mechanism			1	3.23	1	1.61
4	IV(E00 - E89)	Endocrine, Nutritional & metabolic diseases						
5	V(F00 - F99)	Mental & behavioral disorder due to psycho active substance						
6	VI(G00 - G98)	Diseases of the nervous system			1	3.23	1	1.61
7	VII(H00 - H59)	Disease of the eye & Adnexa						
8	VIII(H60 - H95)	Disease of the ear & mastoid						
9	IX(I 00 - I 99)	Disease of the circulatory system						
10	X(J 00 - J 98)	Diseases of respiratory system	4	12.90	4	12.90	8	12.90
11	XI(K00 - K92)	Diseases of the digestive system						
12	XII(L00 - L98)	Diseases of the skin & subcutaneous tissue						
13	XIII(M00 - M99)	Diseases of musculoskeletal system & connective tissue						
14	XIV(N00 - N99)	Diseases of the genito urinary system						
15	XV(O 00 - O 99)	Pregnancy, Childbirth & Puerperium						
16	XVI(P00 - P96)	Certain conditions originating in the perinatal period	27	87.10	23	74.19	50	80.65
17	XVII(Q00 - Q99)	Congenital malformation & deformities Chromosomal abnormalities						
18	XVIII(R00 - R99)	Symptoms, signs & abnormal clinical laboratory findings not elsewhere classified						
19	XIX(S00 - T98)	Injury, Poisoning & certain other consequences of external cause						
		Total	31	100	31	100	62	100

TABLE 13

Sex-wise and Age-wise distribution of Medically Certified Deaths in Kollam Corporation 2003—1 to 14 years

Sl. No.	Code	Headings	Male	%	Female	%	Total	%
1	I(A00 - B99)	Certain infectious & parasitic diseases	0	0.00	1	25.00	1	14.29
2	II(C00 - D48)	Neoplasms			0	0.00	0	0.00
3	III(D50 - D89)	Diseases of blood & blood forming organs and certain disorders involving the immune mechanism						0.00
4	IV(E00 - E89)	Endocrine, Nutritional & metabolic diseases						
5	V(F00 - F99)	Mental & behavioral disorder due to psycho active substance						
6	VI(G00 - G98)	Diseases of the nervous system	0	0.00	2	50.00	2	28.57
7	VII(H00 - H59)	Disease of the eye & Adnexa						
8	VIII(H60 - H95)	Disease of the ear & mastoid						
9	IX(I 00 - I 99)	Disease of the circulatory system	2	66.67	1	25.00	3	42.86
10	X(J 00 - J 98)	Diseases of respiratory system	1	33.33	0	0.00	1	14.29
11	XI(K00 - K92)	Diseases of the digestive system						
12	XII(L00 - L98)	Diseases of the skin & subcutaneous tissue						
13	XIII(M00 - M99)	Diseases of musculoskeletal system & connective tissue						
14	XIV(N00 - N99)	Diseases of the genito urinary system						
15	XV(O 00 - O 99)	Pregnancy, Childbirth & Puerperium						
16	XVI(P00 - P96)	Certain conditions originating in the perinatal period						
17	XVII(Q00 - Q99)	Congenital malformation & deformities Chromosomal abnormalities						
18	XVIII(R00 - R99)	Symptoms, signs & abnormal clinical laboratory findings not elsewhere classified						
19	XIX(S00 - T98)	Injury, Poisoning & certain other consequences of external cause						
		Total	3	100	4	100	7	100

TABLE 14

Sexwise and Age-wise distribution of Medically Certified Deaths in Kollam Corporation 2003—15 to 44 years

Sl No	Code	Headings	Male	%	Female	%	Total	%
1	I(A00 - B99)	Certain infectious & parasitic diseases	5	6.67	1	1.82	6	4.62
2	II(C00 - D48)	Neoplasms	8	10.67	6	10.91	14	10.77
3	III(D50 - D89)	Diseases of blood & blood forming organs and certain disorders involving the immune mechanism	0	0.00	2	3.64	2	1.54
4	IV(E00 - E89)	Endocrine, Nutritional & metabolic diseases	2	2.67	3	5.45	5	3.85
5	V(F00 - F99)	Mental & behavioral disorder due to psycho active substance						
6	VI(G00 - G98)	Diseases of the nervous system	1	1.33	2	3.64	3	2.31
7	VII(H00 - H59)	Disease of the eye & Adnexa						
8	VIII(H60 - H95)	Disease of the ear & mastoid						
9	IX(I 00 - I 99)	Disease of the circulatory system	18	24.00	10	18.18	28	21.54
10	X(J 00 - J 98)	Diseases of respiratory system	13	17.33	11	20.00	24	18.46
11	XI(K00 - K92)	Diseases of the digestive system	10	13.33	3	5.45	13	10.00
12	XII(L00 - L98)	Diseases of the skin & subcutaneous tissue						
13	XIII(M00 - M99)	Diseases of musculoskeletal system & connective tissue						
14	XIV(N00 - N99)	Diseases of the genito urinary system	2	2.67	5	9.09	7	5.38
15	XV(O 00 - O 99)	Pregnancy, Childbirth & Puerperium						
16	XVI(P00 - P96)	Certain conditions originating in the perinatal period						
17	XVII(Q00 - Q99)	Congenital malformation & deformities Chromosomal abnormalities						
18	XVIII(R00 - R99)	Symptoms, signs & abnormal clinical laboratory findings not elsewhere classified						
19	XIX(S00 - T98)	Injury, Poisoning & certain other consequences of external cause	16	21.33	12	21.82	28	21.54
		Total	75	100	55	100	130	100

TABLE 15

Sex-wise and Age-wise distribution of Medically Certified Deaths in Kollam Corporation—2003—45 and Above

Sl. No.	Code	Headings	Male	%	Female	%	Total	%
1	I (A00 - B99)	Certain infectious & parasitic diseases	41	3.96	28	4.37	67	4.11
2	II (C00 - D48)	Neoplasms	96	9.27	58	9.75	154	9.44
3	III (D50 - D89)	Diseases of blood & blood forming organs and certain disorders involving the immune mechanism	4	0.39	6	1.01	10	0.61
4	IV (E00 - E89)	Endocrine, Nutritional & metabolic diseases	162	15.64	105	17.65	267	16.37
5	V (F00 - F99)	Mental & behavioral disorder due to psycho active substance						
6	VI (G00 - G98)	Diseases of the nervous system	4	0.39	3	0.50	7	0.43
7	VII (H00 - H59)	Disease of the eye & Adnexa						
8	VIII (H60 - H95)	Disease of the ear & mastoid						
9	IX (I 00 - I 99)	Disease of the circulatory system	450	43.44	271	45.55	721	44.21
10	X (J 00 - J 98)	Diseases of respiratory system	198	19.11	89	14.96	287	17.60
11	XI (K00 - K92)	Diseases of the digestive system	46	4.44	16	2.69	62	3.80
12	XII (L00 - L98)	Diseases of the skin & subcutaneous tissue						
13	XIII (M00 - M99)	Diseases of musculoskeletal system & connective tissue						
14	XIV (N00 - N99)	Diseases of the genito urinary system	22	2.12	19	3.19	41	2.51
15	XV (O 00 - O 99)	Pregnancy, Childbirth & Puerperium						
16	XVI (P00 - P96)	Certain conditions originating in the perinatal period						
17	XVII (Q00- Q99)	Congenital malformation & deformities Chromosomal abnormalities						
18	XVIII (R00- R99)	Symptoms, signs & abnormal clinical laboratory findings not elsewhere classified						
19	XIX (S00 -T98)	Injury, Poisoning & certain other consequences of external cause	13	1.25	2	0.34	15	0.92
		Total	1036	100	595	100	1631	100

TABLE 16

Medically Certified Deaths based on major disease in Kochi Corporation—2003

Sl.No.	Code	Headings	Total	%
1	IX(I00-I99)	Disease of the circulatory system	1723	37.79
2	II(C00-D48)	Neoplasms	759	16.65
3	X(J00-J98)	Diseases of respiratory system	370	8.12
4	I(A00-B99)	Certain infectious and parasitic diseases	316	6.93
5	IV(E00-E89)	Endocrine, Nutritional & metabolic diseases	311	6.82
6	XIX(S00-T98)	Injury, Poisoning & certain other consequences of external cause.	284	6.23
7	XIV(N00-N99)	Diseases of the genito urinary system	231	5.07
8	XI(K00-K92)	Diseases of the digestive system	228	5
9	XVI(P00-P96)	Certain conditions originating in the perinatal period	210	4.61
10	VI(G00-G98)	Disease of nervous system	94	2.06
11	III(D50-D89)	Diseases of blood & blood forming organs and certain disorders involving the immune mechanism	31	0.68
12	XV(O 00-O 99)	Pregnancy, Childbirth & Puerperium	2	0.04
13	V(F00-F99)	Mental & behavioral disorder due to psycho active substance		
14	VII(H00-H59)	Disease of the eye & Adnexa		
15	VIII(H60-H95)	Disease of the ear & mastoid		
16	XII(L00-L98)	Diseases of the skin & subcutaneous tissue		
17	XIII(M00-M99)	Diseases of musculoskeletal system & connective tissue		
18	XVII(Q00-Q99)	Congenital malformation & deformities Chromosomal abnormalities		
19	XVIII(R00-R99)	Symptoms, signs & abnormal clinical laboratory findings not elsewhere classified		
		Total	4559	100

TABLE 17

Death According to Age Group

Kochi Corporation 2003

Sl. No.	Age Group	No.	%
1	Below 1 Year	348	7.63
2	1-14	93	2.04
3	15-44	726	15.92
4	45 and Above	3392	74.40
5	Not Stated
Total		4559	100

TABLE 18

Sex-wise details of Medically Certified Deaths in Kochi Corporation—2003

Sl.No.	Code	Headings	Male	%	Female	%	Total	%
1	I (A00-B99)	Certain infectious and parasitic diseases	202	7.04	114	6.75	316	6.93
2	II (C00-D48)	Neoplasms	456	15.88	303	17.95	759	16.65
3	III (D50-D89)	Diseases of blood and blood forming organs and certain disorders involving the immune mechanism	18	0.63	13	0.77	31	0.68
4	IV (E00-E89)	Endocrine, Nutritional and metabolic diseases	198	6.90	113	6.69	311	6.82
5	V (F00-F99)	Mental & behavioral disorder due to psycho active substance						
6	VI (G00-G98)	Disease of nervous system	59	2.06	35	2.07	94	2.06
7	VII (H00-H59)	Disease of the eye and Adnexa						
8	VIII (H60-H95)	Disease of the ear and mastoid						
9	IX (I00-I99)	Disease of the circulatory system	1048	36.50	675	39.99	1723	37.79
10	X (J00-J98)	Diseases of respiratory system	228	7.94	142	8.41	370	8.12
11	XI (K00-K92)	Diseases of the digestive system	185	6.44	43	2.55	228	5.00
12	XII (L00-L98)	Diseases of the skin & subcutaneous tissue						
13	XIII (M00-M99)	Diseases of musculoskeletal system and connective tissue						
14	XIV (N00-N99)	Diseases of the genito urinary system	139	4.84	92	5.45	231	5.07
15	XV (O 00-O 99)	Pregnancy, Childbirth and Puerperium			2	0.12	2	0.04
16	XVI (P00-P96)	Certain conditions originating in the perinatal period	126	4.39	84	4.98	210	4.61
17	XVII (Q00-Q99)	Congenital malformation and deformities Chromosomal abnormalities						
18	XVIII (R00-R99)	Symptoms, signs and abnormal clinical laboratory findings not elsewhere classified						
19	XIX(S00-T98)	Injury, Poisoning and certain other consequences of external cause.	212	7.38	72	4.27	284	6.23
		Total	2871	100.00	1688	100.00	4559	100.00

TABLE 19

Sex-wise and Age-wise distribution of Medically Certified Deaths in Kochi Corporation—2003—Below 1 year

Sl.No.	Code	Headings	Male	%	Female	%	Total	%
1	I (A00-B99)	Certain infectious and parasitic diseases	23	10.80	17	12.59	40	11.49
2	II (C00-D48)	Neoplasms	2	0.94	0	0.00	2	0.57
3	III (D50-D89)	Diseases of blood and blood forming organs and certain disorders involving the immune mechanism	3	1.41	1	0.74	4	1.15
4	IV (E00-E89)	Endocrine, Nutritional and metabolic diseases						
5	V (F00-F99)	Mental & behavioral disorder due to psycho active substance						
6	VI (G00-G98)	Disease of nervous system	9	4.23	4	2.96	13	3.74
7	VII (H00-H59)	Disease of the eye and Adhexa						
8	VIII (H60-H95)	Disease of the ear and mastoid						
9	IX (I00-199)	Disease of the circulatory system	27	12.68	15	11.11	42	12.07
10	X (J00-J98)	Diseases of respiratory system	18	8.45	10	7.41	28	8.05
11	XI (K00-K92)	Diseases of the digestive system						
12	XII (L00-L98)	Diseases of the skin and subcutaneous tissue						
13	XIII (M00-M99)	Diseases of musculoskeletal system & connective tissue						
14	XIV (N00-N99)	Diseases of the genito urinary system	5	2.35	3	2.22	8	2.30
15	XV (O 00-O 99)	Pregnancy, Childbirth and Puerperium						
16	XVI (P00-P96)	Certain conditions originating in the perinatal period	126	59.15	84	62.22	210	60.34
17	XVII (Q00-Q99)	Congenital malformation & deformities						
18	XVIII (R00-R99)	Chromosomal abnormalities Symptoms, signs & abnormal clinical laboratory findings not elsewhere classified						
19	XIX (S00-T98)	Injury, Poisoning & certain other consequences of external cause			1	0.74	1	0.29
		Total	213	100.00	135	100.00	348	100.00

TABLE 20
Sex-wise and Age-wise distribution of Medically Certified Deaths in Kochi Corporation—2003—I to 14 years

Sl.No.	Code	Headings	Male	%	Female	%	Total	%
1	I (A00-B99)	Certain infectious and parasitic diseases	14	24.56	2	5.56	16	17.20
2	II (C00-D48)	Neoplasms	3	5.26	3	8.33	6	6.45
3	III (D50-D89)	Diseases of blood and blood forming organs and certain disorders involving the immune mechanism						
4	IV (E00-E89)	Endocrine, Nutritional and metabolic diseases	1	1.75			1	1.08
5	V (F00-F99)	Mental & behavioral disorder due to psycho active substance						
6	VI (G00-G98)	Disease of nervous system	4	7.02	4	11.11	8	8.60
7	VII (H00-H59)	Disease of the Eye & Adnexa						
8	VIII (H60-H95)	Disease of the Ear & mastoid						
9	IX (I00-I99)	Disease of the circulatory system	14	24.56	18	50.00	32	34.41
10	X (J00-J98)	Diseases of respiratory system	7	12.28	4	11.11	11	11.83
11	XI (K00-K92)	Diseases of the digestive system						
12	XII (L00-L98)	Diseases of the skin and subcutaneous tissue						
13	XIII (M00-M99)	Diseases of musculoskeletal system and connective tissue						
14	XIV (N00-N99)	Diseases of the genito urinary system	6	10.53			6	6.45
15	XV (O 00-O 99)	Pregnancy, Childbirth and Puerperium						
16	XVI (P00-P96)	Certain conditions originating in the perinatal period						
17	XVII (Q00-Q99)	Congenital malformation and deformities Chromosomal abnormalities						
18	XVIII (R00-R99)	Symptoms, signs and abnormal clinical laboratory findings not elsewhere classified						
19	XIX (S00-T98)	Injury, Poisoning and certain other consequences of external cause.	8	14.04	5	13.89	13	13.98
		Total	57	100.00	36	100.00	93	100.00

TABLE 21
Sex-wise and Age-wise distribution of Medically Certified Deaths in Kochi Corporation—2003—15 to 44 years

Sl.No.	Code	Headings	Male	%	Female	%	Total	%
1	II(A00-E99)	Certain infectious and parasitic diseases	38	8.60	26	9.15	64	8.82
2	III(C00-D48)	Neoplasms	56	12.67	49	17.25	105	14.46
3	III(D50-D89)	Diseases of blood & blood forming organs and certain disorders involving the immune mechanism	5	1.13	2	0.70	7	0.96
4	IV(E00-E89)	Endocrine, Nutritional & metabolic diseases						
5	V(F00-F99)	Mental & behavioral disorder due to psycho active substance						
6	VI(G00-G98)	Disease of nervous system	7	1.58	8	2.82	15	2.07
7	VII(H00-H59)	Disease of the eye & Adnexa						
8	VIII(H60-H95)	Disease of the ear & mastoid						
9	IX(I00-I99)	Disease of the circulatory system	165	37.33	97	34.15	262	36.09
10	X(J00-J98)	Diseases of respiratory system	30	6.79	31	10.92	61	8.40
11	XI(K00-K92)	Diseases of the digestive system	17	3.85			17	2.34
12	XII(L00-L98)	Diseases of the skin & subcutaneous tissue						
13	XIII(M00-M99)	Diseases of musculoskeletal system & connective tissue						
14	XIV(N00-N99)	Diseases of the genito urinary system	22	4.98	35	12.32	57	7.85
15	XV(O 00-O 99)	Pregnancy, Childbirth & Puerperium			2	0.70	2	0.28
16	XVI(P00-P96)	Certain conditions originating in the perinatal period						
17	XVII(Q00-Q99)	Congenital malformation & deformities Chromosomal abnormalities						
18	XVIII(R00-R99)	Symptoms, signs & abnormal clinical laboratory findings not elsewhere classified						
19	XIX(S00-T98)	Injury, Poisoning & certain other consequences of external cause.	102	23.08	34	11.97	136	18.73
		Total	442	100.00	284	100.00	726	100.00

TABLE 22
Sex-wise and Age-wise distribution of Medically Certified Deaths in Kochi Corporation—2003 -45 and Above

Sl.No.	Code	Headings	Male	%	Female	%	Total	%
1	II(A00-B99)	Certain infectious and parasitic diseases	127	5.88	69	5.60	196	5.78
2	II(C00-D48)	Neoplasms	395	18.30	251	20.36	646	19.04
3	III(D50-D89)	Diseases of blood & blood forming organs and certain disorders involving the immune mechanism	10	0.46	10	0.81	20	0.59
4	IV(E00-E89)	Endocrine, Nutritional & metabolic diseases	197	9.12	113	9.16	310	9.14
5	V(F00-F99)	Mental & behavioral disorder due to psycho active substance						
6	VI(G00-G98)	Disease of nervous system	39	1.81	19	1.54	58	1.71
7	VII(H00-H59)	Disease of the eye & Adnexa						
8	VIII(H60-H95)	Disease of the ear & mastoid						
9	IX(I00-I99)	Disease of the circulatory system	842	39.00	545	44.20	1387	40.89
10	X(J00-J98)	Diseases of respiratory system	173	8.01	97	7.87	270	7.96
11	XI(K00-K92)	Diseases of the digestive system	168	7.78	43	3.49	211	6.22
12	XII(L00-L98)	Diseases of the skin & subcutaneous tissue						
13	XIII(M00-M99)	Diseases of musculoskeletal system & connective tissue						
14	XIV(N00-N99)	Diseases of the genito urinary system	106	4.91	54	4.38	160	4.72
15	XV(O 00-O 99)	Pregnancy, Childbirth & Puerperium						
16	XVI (P00-P96)	Certain conditions originating in the perinatal period						
17	XVII(Q00-Q99)	Congenital malformation & deformities Chromosomal abnormalities						
18	XVIII(R00-R99)	Symptoms, signs & abnormal clinical laboratory findings not elsewhere classified						
19	XIX(S00-T98)	Injury, Poisoning, & certain other consequences of external cause.	102	4.72	32	2.60	134	3.95
		Total	2159	100.00	1233	100.00	3392	100.00

TABLE 23

Medically Certified Deaths based on major disease in Kozhikkode Corporation—2003

Sl.No.	Code	Headings	Total	%
1	IX(I00-I99)	Disease of the circulatory system	2075	27.88
2	I(A00-B99)	Certain infectious and parasitic diseases	928	12.47
3	II(C00-D48)	Neoplasms	926	12.44
4	XVI (P00-P96)	Certain conditions originating in the perinatal period	919	12.35
5	X(J00-J98)	Diseases of respiratory system	840	11.29
6	XIX(S00-T98)	Injury, Poisoning & certain other consequences of external cause	515	6.92
7	IV(E00-E89)	Endocrine, Nutritional & metabolic diseases	335	4.50
8	XI(K00-K92)	Diseases of the digestive system	332	4.46
9	XIV(N00-N99)	Diseases of the genito urinary system	321	4.31
10	VI(G00-G98)	Disease of nervous system	223	3.00
11	III(D50-D89)	Diseases of blood and blood forming organs and certain disorders involving the immune mechanism	22	0.30
12	XV(O 00-O 99)	Pregnancy, Childbirth and Puerperium	6	0.08
13	V(F00-F99)	Mental & behavioral disorder due to psycho active substance		
14	VII(H00-H59)	Disease of the eye and Adnexa		
15	VIII(H60-H95)	Disease of the ear and mastoid		
16	XII(L00-L98)	Diseases of the skin and subcutaneous tissue		
17	XIII(M00-M99)	Diseases of musculoskeletal system & connective tissue		
18	XVII(Q00-Q99)	Congenital malformation and deformities Chromosomal abnormalities		
19	XVIII(R00-R99)	Symptoms, signs & abnormal clinical laboratory findings not elsewhere classified		
		Total	7442	100.00

TABLE 24

Death According to Age Group

Kozhikkode Corporation 2003

Sl. No.	Age Group	No.	%
1	Below 1 Year	1292	17.36
2	1-14	298	4.00
3	15-44	1011	13.59
4	45 and above	4839	65.02
5	Not stated	2	0.03
Total		7442	100.00

TABLE 25

Sex-wise details of Medically Certified Deaths in Kozhikkode Corporation—2003

Sl. No.	Code	Headings	Male	%	Female	%	Total	%
1	I(A00 - B99)	Certain infectious & parasitic diseases	574	12.29	354	12.78	928	12.47
2	II(C00 - D48)	Neoplasms	602	12.89	324	11.69	926	12.44
3	III(D50 - D89)	Diseases of blood & blood forming organs and certain disorders involving the immune mechanism	9	0.19	13	0.47	22	0.30
4	IV(E00 - E89)	Endocrine, Nutritional & metabolic diseases	213	4.56	122	4.40	335	4.50
5	V(F00 - F99)	Mental & behavioral disorder due to psycho active substance						
6	VI(G00 - G98)	Diseases of the nervous system	123	2.63	100	3.61	223	3.00
7	VII(H00 - H59)	Disease of the eye & Adnexa						
8	VIII(H60 - H95)	Disease of the ear & mastoid						
9	IX(I 00 - I 99)	Disease of the circulatory system	1323	28.32	752	27.14	2075	27.88
10	X(J 00 - J 98)	Diseases of respiratory system	562	12.03	278	10.03	840	11.29
11	XI(K00 - K92)	Diseases of the digestive system	249	5.33	83	3.00	332	4.46
12	XII(L00 - L98)	Diseases of the skin & subcutaneous tissue						
13	XIII(M00 - M99)	Diseases of musculoskeletal system & connective tissue						
14	XIV(N00 - N99)	Diseases of the genito urinary system	207	4.43	114	4.11	321	4.31
15	XV(O 00 - O 99)	Pregnancy, Childbirth & Puerperium	0	0.00	6	0.22	6	0.08
16	XVI(P00 - P96)	Certain conditions originating in the perinatal period	518	11.09	401	14.47	919	12.35
17	XVII(Q00 - Q99)	Congenital malformation & deformities Chromosomal abnormalities						
18	XVIII(R00 - R99)	Symptoms, signs & abnormal clinical laboratory findings not elsewhere classified						
19	XIX(S00 - T98)	Injury, Poisoning & certain other consequences of external cause	291	6.23	224	8.08	515	6.92
		Total	4671	100	2771	100	7442	100

TABLE 26
Sex-wise and Age-wise distribution of Medically Certified Deaths in Kozhikkode Corporation 2003—Below 1 year

Sl.No.	Code	Headings	Male	%	Female	%	Total	%
1	I(A00-B99)	Certain infectious and parasitic diseases	110	15.11	87	15.43	197	15.25
2	II(C00-D48)	Neoplasms	7	0.96	5	0.89	12	0.93
3	III(D50-D89)	Diseases of blood & blood forming organs and certain disorders involving the immune mechanism						
4	IV(E00-E89)	Endocrine, Nutritional & metabolic diseases						
5	V(F00-F99)	Mental & behavioral disorder due to psycho active substance						
6	VI(G00-G98)	Disease of nervous system	12	1.65	14	2.48	26	2.01
7	VII(H00-H59)	Disease of the eye & Adnexa						
8	VIII(H60-H95)	Disease of the ear & mastoid						
9	IX(I00-I99)	Disease of the circulatory system	15	2.06	8	1.42	23	1.78
10	X(J00-J98)	Diseases of respiratory system	60	8.24	47	8.33	107	8.28
11	XI(K00-K92)	Diseases of the digestive system	3	0.41		0.00	3	0.23
12	XII(L00-L98)	Diseases of the skin & subcutaneous tissue						
13	XIII(M00-M99)	Diseases of musculoskeletal system & connective tissue						
14	XIV(N00-N99)	Diseases of the genito urinary system	3	0.41	2	0.35	5	0.39
15	XV(O 00-O 99)	Pregnancy, Childbirth & Puerperium		0.00		0.00		0.00
16	XVI (P00-P96)	Certain conditions originating in the perinatal period	518	71.15	401	71.10	919	71.13
17	XVII(Q00-Q99)	Congenital malformation & deformities Chromosomal abnormalities						
18	XVIII(R00-R99)	Symptoms, signs & abnormal clinical laboratory findings not elsewhere classified						
19	XIX(S00-T98)	Injury, Poisoning & certain other consequences of external cause.	728	100.00	564	100.00	1292	100.00
		Total						

TABLE 27
Sex-wise and Age-wise distribution of Medically Certified Deaths in Kozhikkode Corporation 2003—1 to 14 years

Sl.No.	Code	Headings	Male	%	Female	%	Total	%
1	I(A00-B99)	Certain infectious and parasitic diseases	37	20.56	25	21.19	62	20.81
2	II(C00-D48)	Neoplasms	17	9.44	10	8.47	27	9.06
3	III(D50-D89)	Diseases of blood & blood forming organs and certain disorders involving the immune mechanism						
4	IV(E00-E89)	Endocrine, Nutritional & metabolic diseases						
5	V(F00-F99)	Mental & behavioral disorder due to psycho active substance						
6	VI(G00-G98)	Disease of nervous system	29	16.11	19	16.10	48	16.11
7	VII(H00-H59)	Disease of the eye & adnexa						
8	VIII(H60-H95)	Disease of the ear & mastoid						
9	IX(I00-I99)	Disease of the circulatory system	33	18.33	20	16.95	53	17.79
10	X(J00-J98)	Diseases of respiratory system	31	17.22	22	18.64	53	17.79
11	XI(K00-K92)	Diseases of the digestive system	6	3.33	2	1.69	8	2.68
12	XII(L00-L98)	Diseases of the skin & subcutaneous tissue						
13	XIII(M00-M99)	Diseases of musculoskeletal system & connective tissue						
14	XIV(N00-N99)	Diseases of the genito urinary system	10	5.56	7	5.93	17	5.70
15	XV(O 00-O 99)	Pregnancy, Childbirth & Puerperium						
16	XVI (P00-P96)	Certain conditions originating in the perinatal period						
17	XVII(Q00-Q99)	Congenital malformation & deformities Chromosomal abnormalities						
18	XVIII(R00-R99)	Symptoms, signs & abnormal clinical laboratory findings not elsewhere classified						
19	XIX(S00-T98)	Injury, Poisoning & certain other consequences of external cause.	17	9.44	13	11.02	30	10.07
		Total	180	100.00	118	100.00	298	100.00

TABLE 28

Sex-wise and Age-wise distribution of Medically Certified Deaths in Kozhikkode Corporation 2003—15 to 44 years

Sl.No.	Code	Headings	Male	%	Female	%	Total	%
1	I(A00-B99)	Certain infectious and parasitic diseases	77	12.60	44	11.00	121	11.97
2	II(C00-D48)	Neoplasms	70	11.46	44	11.00	114	11.28
3	III(D50-D89)	Diseases of blood & blood forming organs and certain disorders involving the immune mechanism	1	0.16	1	0.25	2	0.20
4	IV(E00-E89)	Endocrine, Nutritional & metabolic diseases	13	2.13	7	1.75	20	1.98
5	V(F00-F99)	Mental & behavioral disorder due to psycho active substance						
6	VI(G00-G98)	Disease of nervous system	24	3.93	17	4.25	41	4.06
7	VII(H00-H59)	Disease of the eye & adnexa						
8	VIII(H60-H95)	Disease of the ear & mastoid						
9	IX(I00-I99)	Disease of the circulatory system	169	27.66	99	24.75	268	26.51
10	X(J00-J98)	Diseases of respiratory system	62	10.15	25	6.25	87	8.61
11	XI(K00-K92)	Diseases of the digestive system	34	5.56	9	2.25	43	4.25
12	XII(L00-L98)	Diseases of the skin & subcutaneous tissue						
13	XIII(M00-M99)	Diseases of musculoskeletal system & connective tissue						
14	XIV(N00-N99)	Diseases of the genito urinary system	29	4.75	21	5.25	50	4.95
15	XV(O 00-O 99)	Pregnancy, Childbirth & Puerperium	0	0.00	6	1.50	6	0.59
16	XVI (P00-P96)	Certain conditions originating in the perinatal period						
17	XVII(Q00-Q99)	Congenital malformation & deformities Chromosomal abnormalities						
18	XVIII(R00-R99)	Symptoms, signs & abnormal clinical laboratory findings not elsewhere classified						
19	XIX(S00-T98)	Injury, Poisoning & certain other consequences of external cause.	132	21.60	127	31.75	259	25.62
		Total	611	100.00	400	100.00	1011	100.00

TABLE 29
Sex-wise and Age-wise distribution of Medically Certified Deaths in Kozhikkode Corporation 2003—45 and Above

Sl.No.	Code	Headings	Male	%	Female	%	Total	%
1	I(A00-B99)	Certain infectious and parasitic diseases	350	11.11	198	11.72	548	11.32
2	II(C00-D48)	Neoplasms	506	16.06	265	15.69	771	15.93
3	III(D50-D89)	Diseases of blood & blood forming organs and certain disorders involving the immune mechanism	8	0.25	12	0.71	20	0.41
4	IV(E00-E89)	Endocrine, Nutritional & metabolic diseases	200	6.35	115	6.81	315	6.51
5	V(F00-F99)	Mental & behavioral disorder due to psycho active substance						
6	VI(G00-G98)	Disease of nervous system	58	1.84	50	2.96	108	2.23
7	VII(H00-H59)	Disease of the eye & adnexa						
8	VIII(H60-H95)	Disease of the ear & mastoid						
9	IX(I00-I99)	Disease of the circulatory system	1106	35.11	625	37.00	1731	35.77
10	X(J00-J98)	Diseases of respiratory system	409	12.98	184	10.89	593	12.25
11	XI(K00-K92)	Diseases of the digestive system	206	6.54	72	4.26	278	5.74
12	XII(L00-L98)	Diseases of the skin & subcutaneous tissue						
13	XIII(M00-M99)	Diseases of musculoskeletal system & connective tissue						
14	XIV(N00-N99)	Diseases of the genito urinary system	165	5.24	84	4.97	249	5.15
15	XV(O 00-O 99)	Pregnancy, Childbirth & Puerperium						
16	XVI (P00-P96)	Certain conditions originating in the perinatal period						
17	XVII(Q00-Q99)	Congenital malformation & deformities Chromosomal abnormalities						
18	XVIII(R00-R99)	Symptoms, signs & abnormal clinical laboratory findings not elsewhere classified						
19	XIX(S00-T98)	Injury, Poisoning & certain other consequences of external cause	142	4.51	84	4.97	226	4.67
		Total	3150	100.00	1689	100.00	4839	100.00

APPENDIX I
Details of Medical Institutions covered under MCCD — 2003

Sl. No.	Type of Hospital	Thiruvananthapuram			Kollam			Kochi			Kozhikkode			Alappuzha		
		Existing institutions	covered under MCCD	Reporting MCCD Data	Existing institutions	covered under MCCD	Reporting MCCD Data	Existing institutions	Covered under MCCD	Reporting MCCD Data	Existing institutions	Covered under MCCD	Reporting MCCD Data	Existing institutions	Covered under MCCD	Reporting MCCD Data
1	Teaching Hospital	10	10	-												
2	Specialised Hospitals	9	9	-	2	2	2									
3	General Hospitals	1	1	-	2	2	2	3	3	3	22	22	22	1	1	1
4	Primary Health Centers				4						6					
5	Community Health Centers				13									6		
6	Other Government and Private Hospitals	19	17	-										3	1	
(a)	ESI Hospitals	1	1	-	1	1	1	1	1	1	3	-	-	1		1
(b)	Railway Hospitals	1	1	-	1						1					
(c)	Police Hospitals															
(d)	Defence Hospitals	1	1	-				1	1	1						
(e)	Missionary Hospitals	1	1	-	1	1	1	4	4	4	2	1	1			
(f)	Other private Hospitals	17	15	-	36	19	19	45	45	45	1	-	-			

APPENDIX II

MEDICALLY CERTIFIED DEATHS BY SEX ACCORDING TO ICD-10 -2003

Cause of death	ICD code	Alappuzha			Kollam			Kochi			Kozhikkode		
		M	F	T	M	F	T	M	F	T	M	F	T
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
I. Certain Infectious and parasitic diseases													
Cholera	A 00												
Typhoid fever & Para typhoid fever	A 01												
Food poisoning	A 02,A05				1		1						
Shigellosis	A 03												
Amoebiasis	A 06												
Diarrhoea & Gastroenteritis of presumed infectious origin	A 09										10	5	15
Other intestinal infectious diseases	A 04, A 07, A 08												
Respiratory TB	A 15,A16	33	11	44	26	20	46	63	26	89	205	103	308
TB of Nervous system	A 17		1	1									
TB of other organs & miliary TB	A 18,A19												
Plague	A 20												
Leprosy	A 30												
Neonatal Tetanus	A 33							1	1	2			
Other tetanus	A 34-A35		1	1							7	4	11
Diphtheria	A 36												
Whooping cough	A 37												
Meningococcal infection	A 39							6	5	11			
Septicemia	A 40,A41	13	15	28	13	9	22	84	55	139	224	171	395
All other types of bacterial diseases	A8 21- A,A31,A32,A38,A4 2-A49												
Syphilis	A 50,A53												

Other types of infections with a predominately sexual mode of transmission	A 54-A64																				
Acute Polymyelitis	A80																				
Rabies	A82	3				3							2	2	6	3					9
Japanese Encephalities	A83.0											3	3	6							
Other viral encephalities	A83.1-A83.9,A84-A86																				
Dengue fever	A90									5	4	9	21	12	33						
Other arthropod borne viral fevers & viral haemorrhage fevers	A91-A94,A96,A97																				
Small pox	B03																				
Measles	B05																				
Acute Hepatitis	B16	2		2	2					2	5	1	6	8	9	17					
Other viral Hepatitis	B15,B17,B19	1	2	3							7	4	11	7	14						
Human immuno deficiency virus(HIV)	B20-B24										2		2	15	1	16					
All other types of viral diseases	A70-A74,A81,A87-A89,A95,B00-B02,B04,B06-B09 & B25-B34																				
Malaria	B50-B54																				
All other types of protozoal diseases	B55,B64																				
Filariasis	B74																				
Other helminthiasis	B65-B73,B75,B77-B83																				
Other spirochaetal diseases & Rickettsiosis	A65-A69,A75-A79	5	5	10	5	1	6	23	15	38	71	39	110								
All other infectious & parasitical diseases	B35-B49,B65,B76,B85-B94,B99																				

Chronic rheumatic heart disease	I05-I09	14	11	25	2	6	8	21	17	38	29	33	62
Hypertensive heart diseases	I11	127	66	193	93	57	150	96	73	169	165	85	250
All other Hypertensive diseases	I10,I12-I15	4	2	6	5	6	11	11	4	15	30	22	52
Acute myocardial infraction	I21-I22	189	91	280	133	70	203	221	123	344	313	137	450
All other ischaemic heart diseases	I20,I23-I25	15	17	32	36	13	49	68	53	121	126	64	190
Pulmonary heart diseases & diseases of pulmonary circulation	I26-I28,I26-I51	77	40	117	36	15	51	223	166	389	117	84	201
Other forms of heart diseases	I30-I51	5	3	8	6	3	9	45	22	67	37	21	58
Cerebro vascular diseases	I60-I69	90	45	135	113	93	206	188	139	327	417	252	669
Atherosclerosis	I70												
Arterial embolism	I74				3	2	5	45	13	58	20	12	32
Other diseases of arteries, arterioles & capillaries	I71-I73,I77-I78	1	2	3	43	17	60	72	24	96	69	42	111
Phlebitis thrombo phlebitis, VeneseMBOLISM & thrombosis	I80-I82	12	9	21				48	41	89			
All other diseases of the circulatory system	I83-I99												
X. Diseases of respiratory system													
Acute Pharyngitis & acute tonsillitis	J02-J03												
Acute laryngitis & tracheitis	J04												
Other acute upper respiratory infections	J00-J01,J05-J06	148	126	274	163	73	236	56	49	105	290	117	407
All other diseases of upper respiratory tract	J30-J39	7	3	10	6	4	10	9	3	12	46	30	76
Acute bronchitis & acute bronchiolitis	J20-J21	1	1	2				2	1	3	17	8	25
Bronchitis, chronic & unspecific	J40-J43												
emphysema	J45-J46	38	31	69	21	12	33	34	20	54	32	33	65
Asthma	J22,J44,J47												
Other lower respiratory disorders	J10-J11												
Influenza	J12-J18	51	40	91	26	15	41	127	69	196	177	90	267
Pneumonia	J90												
Pleurisy													

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
All other diseases of the respiratory system	J60-J86, J92-J98	1	1	2									
XI. Diseases of the digestive system													
Disease of the oral cavity	K00-K14	8	6	14									
Gastric & duodenal ulcer	K25-K27				5	1	6	28	15	43	40	14	54
Gastric & duodenitis	K29												
Diseases of Appendix	K35-K38												
Hernia	K40-K46							2		2	1	2	3
Paralytic items & intestinal obstruction without hernia	K56												
Peritonitis	K65	9	5	14	4	3	7	8	5	13	35	18	53
Diseases of the liver	K70-K76	16	8	24	48	15	63	147	23	170	173	49	222
Cholelithiasis & Cholelystitis	K80-K81												
Disorders of pancreas	K85-K86												
All other disease of other part of digestive system	K20-K22, K28, K30-K31, K50-K55, K57-K63, K66, K83, K90-K92												
XII. Diseases of the skin & subcutaneous tissue													
Infections of skin & subcutaneous tissue	L00-L08												
All other diseases of skin & subcutaneous tissue	L10-L98												
XIII. Diseases of musculoskeletal system & connective tissue													
Rheumatoid arthritis & other inflammatory polyarthropathies	M05-M13												
Osteomyelitis	M86												
All other diseases of musculoskeletal system & connective tissue	M00-M02, M15-M43, M45-M85, M87-M99												

XIV. Diseases of the genito urinary system													
		1	2	3	2	1	3	20	9	29	19	16	35
Glomerular disease(including nephritic syndrome)	N00-N07												
Renal tubulo interstitial diseases	N10-N05												
Renal failure	N17-N19	28	12	40	22	23	45	119	83	202	188	98	286
Urolithiasis	N20-N23												
Other disorders of kidney & ureter	N25-N28												
All other disease of urinary system	N30-N39												
Hyperplasia of prostate	N40												
All other disease of male genital organs	N41-N50												
Salpingitis & oopheritis	N70												
All other disease of female genital organs	N60,N64,N71-N76,N80-N99												
XV. Pregnancy, Childbirth and Puerperium													
Spontaneous abortion	O03												
Medical abortion	O04												
Other pregnancies with abortive outcome	O00-O02,O05-O08											6	6
Oedema, Proteinuria & hypertensive disorders in pregnancy childbirth and puerperium	O10-O16												
Infections of genitourinary tract in pregnancy	O23												
Obstructed labour	O64-O66												
Complications predominantly related to the puerperium	O85-O92												
Other complications of delivery & pregnancy	O67-O75,O80-O84								2	2			
Indirect obstetric deaths	O98-O99												

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
All other obstric conditions not elsewhere classified	O95-O97												
XVI. Certain conditions originating in the perinatal period													
Slow fatal growth fatal malnutrition & immaturity	P05-P07	39	14	53	13	13	26	94	63	157	211	168	379
Birth trauma	P10-P15	1		1	4	3	7	3	2	5	45	32	77
Hypoxia, Birth asphyxia & other respiratory conditions	P20-P28	10	8	18	10	7	17	26	18	44	262	201	463
Hemolytic diseases of feotus & new born	P55												
Other perinatal jaundice	P58-P59							3	1	4			
All other conditions originating in the perinatal period	P00-P04,P08,P29-P54,P56,P57,P60-P96												
XVII. Congenital malformation & deformities Chromosomal abnormalities													
Spinabifida	Q05												
Congenital formation of the circular system	Q20-Q28												
Cleft lip & cleft palate	Q35-Q37												
All other Congenital formation & deformation & Chromosomal abnormality not elsewhere classified	Q00-04,Q06,Q07, Q10-Q18,Q30-Q34,Q38-Q99												
XVIII. Symptoms, signs & abnormal clinical laboratory findings not elsewhere classified													
Abdominal pelnic	R10												
Ascites	R18												
Somnoleness stapr &coma	R40												
Fever unknown	R50												
Senility	R54												
Syncope & collapse	R55												

Convulsion not elsewhere classified	R56																		
Shock not elsewhere classified	R57																		
All other Symptoms, signs & abnormal clinical laboratory findings not elsewhere classified	R00-R09, R11-R17, R19-R39, R41-R49, R51-R53, R58-R99																		
XIX. Injury, Poisoning & certain other consequences of external cause.																			
Fractures of Skull, facial bones	S02		29	17	46						88	17	105	140	50	190			
Fractures of Thorax & Pelvis	S12, S22, S32, T08		17	20	37						68	13	81	59	36	95			
Fractures of Upperlimb	S42, S52, S62, T10																		
Fractures of lowerlimb	S72, S82, S92, T12																		
Fractures involving multiple body regions and forms specified body regions	T02																		
Dislocations, sprains & strains of specified and multiple body region.	S03, S13, S23, S33, S43, S53, S63, S73, S83, S93, T03											5	2	7					
Infra cranial & internal injuries including nervous	S04, S06, S24, S26-S27, S34, S36-S37, S44, S54, S64, S74, S84 & S94		2	1	3														
Crushy injuries & amputation of specified & multiple body regions	S07, S08, S17, S18, S28, S38, S47-S48, S57, S77-S78, S87-S88, S97-S98, T04-T05, S58, S67-S68																		

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
Other injuries of specified and unspecified multiple body regions	S00-S01, S05, S09-S11, S15-S16, S19-S21, S25, S29-S31, S35, S39-S41, S45-S46, S49-S51, S55-S56, S59-S61, S65-S66, S69-S71, S75-S76, S79-S81, S85-S86, S89-S91, S95-S96, S99, T00-T01, T06-T07, T09, T11, T13-T14				1		1	4	2	6			
Effects of foreign body entering through natural orifice	T15-T19												
Burns, Corrosion	T20-T32	6	18	24	6	8	14	21	21	42	34	98	132
Poisoning by drugs & biological substances & toxic effects of substances chiefly, non medical as to source	T36-T50, T51-T65	26	19	45	22	6	28				57	39	96
Other unspecified effects of external cause & certain early complication of trauma	T33-T35, T66-T78, T79		1	1				20	15	35			
Complication of surgical medical care not elsewhere classified	T80-T88										1	1	2
Late effects of injuries of poisoning of other consequences of external causes	T90-T98							1	2	3			

۱۹۱۹

PRINTED BY THE SUPERINTENDENT OF GOVERNMENT PRESSES, AT THE
GOVERNMENT CENTRAL PRESS, THIRUVANANTHAPURAM, 2008.